

SYSTEMS AND METHODS FOR MANAGEMENT OF DATA IN A RING BUFFER FOR ERROR RESILIENT DECODING OF A VIDEO BITSTREAM

Abstract of the Disclosure

The invention is related to methods and apparatus that manage data received in a video bitstream. Video data received from the video bitstream is placed in a ring buffer, which is also known as a circular buffer. Data logging information is also stored in the ring buffer. In one embodiment, the data logging information is stored synchronously or in alignment with the corresponding video data. The data logging information can include a status of whether the corresponding video data with or without error. The ring buffer provides fast and efficient access to video bitstream data that may be accessed multiple times in multiple directions by modules that extract data from the video bitstream in an error resilient manner.